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NEWS 24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 25	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 26	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 27	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 28	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 29	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
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                  Assistant and BLAST plug-in
 NEWS 33  JUN 30  STN AnaVist enhanced with database content from EPFULL

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE LAST UPDATED: 24 Jul 2008  (20080724/ED)

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=> s (fluorination or fluoridation)
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         17987 FLUORINATION
          1261 FLUORIDATION
L1       19144 (FLUORINATION OR FLUORIDATION)

=> s diphenyliodonium
L2        2148 DIPHENYLIODONIUM

=> s fluoride
L3      275699 FLUORIDE

=> s water
L4     2741080 WATER

=> s l1 adn l2 and l3 and l4
MISSING OPERATOR L1 ADN
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l1 and l2 and l3 and l4
L5           0 L1 AND L2 AND L3 AND L4

=> s l1 and l2
L6           6 L1 AND L2

=> d l6 1-6 bib ABS
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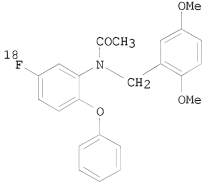
L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1310500 CAPLUS
DN 148:121427
TI A practical route for synthesizing a PET ligand containing [18F]fluorobenzene using reaction of diphenyliodonium salt with [18F]F-
AU Zhang, Ming-Rong; Kumata, Katsushi; Suzuki, Kazutoshi
CS Radiochemistry Section, Department of Molecular Probes, Molecular Imaging Center, National Institute of Radiological Sciences, Inage-ku, Chiba, 263-8555, Japan
SO Tetrahedron Letters (2007), 48(49), 8632-8635
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Ltd.
DT Journal
LA English
OS CASREACT 148:121427
GI



I

AB A practical route was developed for preparing a fluorine-18 ([18F]) labeled ligand containing a [18F]fluorobenzene ring by employing the reaction of diphenyliodonium salt with [18F]F-. Diphenyliodonium tosylate was synthesized from the appropriate tributylphenylstannane with [hydroxy(tosyloxy)iodo]benzene. Using this method, [18F]DAA1106 (I), a positron emission tomog. ligand for imaging peripheral-type benzodiazepine receptor, was prepared
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

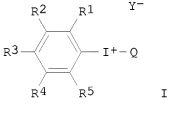
L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:614337 CAPLUS
DN 148:307964
TI Development of molecular probe labeling technology. Practical synthesis of [18F]fluorobenzene with [18F] nucleophilic substitution reaction
AU Zhang, Ming- Rong; Kumada, Katsushi; Suzuki, Kazutoshi
CS National Institute of Radiological Sciences, Japan
SO Hoshasen Igaku Sogo Kenkyusho, [Report] NIRS-M (2007), NIRS-M-197(Dai-1-kai Bunshi Imejingu Kenkyu Senta Shinpojumu, 2007), 19-24 CODEN: NIRRDY
PB Hoshasen Igaku Sogo Kenkyusho
DT Journal; General Review
LA Japanese
AB A review on synthesis of [18F]fluorobenzene derivs., e.g. [18F]DAA1106, for PET ligands by generation of diphenyliodonium tosylates from hydroxy(4-methoxyphenyl)(4-methylbenzenesulfonato-O)iodine (CAS REG 126550-93-4) and tributylphenyltin derivs. and regioselective nucleophilic substitution reaction of the resulting diphenyliodonium tosylates with [18F]F-.

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:214878 CAPLUS
DN 145:155939
TI Non-PFOS photoacid generating compounds for chemically amplified resists
AU Ayothi, Ramakrishnan; Yi, Yi; Felix, Nelson; Ober, Christopher K.; Cao, Heidi; Wang, Yueh
CS Department of Materials Science and Engineering, Cornell University, Ithaca, NY, 14853, USA
SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2006), 47(1), 528-529
CODEN: ACPPAY; ISSN: 0032-3934
PB American Chemical Society, Division of Polymer Chemistry
DT Journal; (computer optical disk)
LA English
AB New class of photoacid generators (PAGs) that carry an anion composed of aryl groups and possessing less fluorination than perfluorooctane sulfonate (PFOS), thus more environmentally friendly, were developed. These include diphenyliodonium 2-(phenoxy)tetrafluoroethane-1-sulfonate (PAG 1) and diphenyliodonium 2-nitro-4-(trifluoromethyl)benzenesulfonate (PAG 2). These PAGs have good solubility in common solvents and comparable thermal properties to standard ionic PAGs. These PAGs show reasonable sensitivity upon exposure to e-beam radiation and are capable of resolving sub-100 nm lines and spaces. The two new PAGs may have a higher degradation probability but isolation of the pure acids to evaluate their mammalian toxicity, ecotoxicity and bioconcn. factor will provide a better understanding of the environmentally friendly nature of the new non-PFOS PAGs.
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:588844 CAPLUS
DN 143:115340
TI Process for fluorination and radiofluorination of iodonium salts in the presence of a radical trap
IN Wadsworth, Harry John; Widdowson, David Arthur; Wilson, Emmanuelle; Carroll, Michael Andrew
PA GE Healthcare Limited, UK
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005061415	A1	20050707	WO 2004-GB5304	20041217
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1697279	A1	20060906	EP 2004-806112	20041217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	CN 1898184	A	20070117	CN 2004-80038469	20041217
	JP 2007515465	T	20070614	JP 2006-546303	20041217
	US 20060292060	A1	20061228	US 2006-559879	20060830
PRAI	GB 2003-29716	A	20031223		
	WO 2004-GB5304	W	20041217		

OS CASREACT 143:115340; MARPAT 143:115340
GI



I

AB Decomposition of iodonium salts I [Q = precursor of fluorine-labeled compound; Y = anion selected from triflate, nonaflate, mesylate, hexaflate; R1-R2, R4-R5 = independently H, NO2, CN, halo,(un)protected C1-10 hydroxyalkyl, C2-10 carboxyalkyl, C1-10 alkyl, C2-10 alkoxyalkyl, C1-10 aminoalkyl, C1-10 haloalkyl, C6-14 aryl, c3-12 heteroaryl, C3-20 alkylaryl, C5-12 arylene, C2-10 alkenyl, C2-10 alkynyl, C1-10 acyl, C7-10 aroyl, C2-10 carboalkoxy, C2-10 carbamoyl, C2-10 carbamyl, C1-10 alkylsulfinyl; or R1-R5 may form 4-6-membered ring; R3 = any group R1-R2, R4-R5 or link to a solid support] by a free radical process has been identified as a significant factor in the observed yield variability of fluoridation

reactions using said iodonium salts. Accordingly, the inclusion of a free radical trap, such as 2,2,6,6-tetramethylpiperidine-N-oxide, 1,2-diphenylethylene, ascorbate, p-aminobenzoic acid, α-tocopherol, hydroquinone, di-t-butylphenol, β-carotene, or gentisic acid in the reaction mixture blocks the radical chain decomposition pathway for iodonium salts such that only the reaction leading to fluoridation can occur and the yield of aryl fluoride becomes high and reproducible. In both the solution and the solid phase the preferred method of the present invention is radiofluoridation. Thus, radiofluorination of diphenyliodonium triflate with 18F-fluoride in the presence of Kryptofix 222 in dry acetonitrile and 70 mol % 2,2,6,6-tetramethylpiperidine-N-oxide gave radiolabeled fluorobenzene in 41-57% yield and 82-96% radiochem. purity. The same reaction without the radical trap gave labeled fluorobenzene in 0-40% yields and 0-65% radiochem. purity.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:96208 CAPLUS
DN 130:168015
TI Ionic perfluorosulfonimide compounds with delocalized anionic charge, and their use as components of ionic conductors or catalysts
IN Armand, Michel; Michot, Christophe; Yagupolskii, Yurii; Yagupolskii, Lev; Bezdudny, Andrej; Kondratenko, Natalya
PA Acep Inc., Can.; Universite de Montreal; Centre National de la Recherche Scientifique; Institute of Organic Chemistry
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9905100	A1	19990204	WO 1998-FR1663	19980727
	W: CA, JP, UA, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2266643	A1	19990204	CA 1998-2266643	19980727
	EP 928287	A1	19990714	EP 1998-941464	19980727
	EP 928287	B1	20031001		
	R: DE, FR, GB, IT				
	JP 2001507043	T	20010529	JP 1999-509451	19980727
	EP 1388546	A2	20040211	EP 2003-292375	19980727
	EP 1388546	A3	20040303		
	R: DE, FR, GB, IT				
	US 6340716	B1	20020122	US 1999-269264	19990325
	US 20020013381	A1	20020131	US 2001-931076	20010817
	US 6548567	B2	20030415		
	US 20030195269	A1	20031016	US 2003-366450	20030214
	US 20040162362	A9	20040819		
	US 6841638	B2	20050111		
	US 20050158631	A1	20050721	US 2005-32038	20050111
	US 20070205388	A1	20070906	US 2007-654035	20070117
	US 7378034	B2	20080527		
PRAI	CA 1997-2211465	A	19970725		
	EP 1998-941464	A3	19980727		
	WO 1998-FR1663	W	19980727		
	US 1999-269264	A3	19990325		
	US 2001-931076	A3	20010817		
	US 2003-366450	A3	20030214		
	US 2005-32038	B1	20050111		

OS MARPAT 130:168015
AB The invention concerns ionic compds. of formula [R1X1(:Z1)Q-X2(:Z2)R2]m Mm+ [I; in which Mm+ is a cation of valence m; each Xi = S:Z3, S:Z4, PR3, or PR4; Q = N, CR5, CCN, or CSO2R5; each Zi = :O, :NC.tplbond.N, :C(C.tplbond.N)2, :NS(:Z)2R6, or :C[S(=Z)2R6]2; each Ri = Y, YO, YS, Y2N, or F; Y = monovalent organic radical, or repeat unit of a polymeric fabric]. I are useful for preparing materials with ionic conduction, electrolytes, as catalysts for polymerization and other organic reactions, and for doping polymers.
For instance, butanesulfonyl chloride was condensed with CF3SO2NH2 using DABCO, and the product treated with saturated KCl and AcOH to give crystalline BuSO2N(K)SO2CF3. This was treated with (COCl)2 and DMF in MeCN, followed by treatment with CF3SO2NH2 and DABCO, and then workup with aqueous KCl and AcOH, to give title compound CF3SO2N-S(:O)(Bu):NSO2CF3 K+. The latter was converted to the corresponding Li+ salt using LiBF4, and the Li salt was incorporated in poly(ethylene oxide) of mass 106 to give a film with conductivity

>2 + 10-5 S/cm at 25°.
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:558135 CAPLUS
DN 115:158135
OREF 115:27063a,27066a
TI Direct and regiocontrolled synthesis of α-phenyl ketones from silyl enol ethers and diphenyliodonium fluoride
AU Chen, Kuanchiang; Koser, Gerald F.
CS Dep. Chem., Univ. Akron, Akron, OH, 44325, USA
SO Journal of Organic Chemistry (1991), 56(20), 5764-7
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 115:158135
AB The efficacy of diphenyliodonium fluoride (I), for the phenylation of silyl enol ethers was investigated. When the silyl enol ethers of cyclopentanone, 2-methylcyclopentanone, cyclohexanone, 2-methylcyclohexanone, acetophenone, 2-pentanone, diisopropyl ketone, and pinacolone were mixed with I in THF, either α-Ph or α,α-di-Ph ketones were produced and isolated in yields ranging from 20 to 88%. The regiochem. of α-phenylation can be controlled by appropriate choice of silyl enol ether was demonstrated. 3,3-Dimethyl-2-(silyloxy)-1-butene gave a dehydro dimer of pinacolone with I in addition to α-phenylpinacolone, thus suggesting that phenylations of silyl enol ethers with I may proceed via radical intermediates.

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